

METHODS AND COMPOSITIONS FOR PRODUCING BIOPOLYMERIC ARRAYS

ABSTRACT

5 Methods and compositions are provided for producing arrays of polymeric
binding agents. In the subject methods, the individual polymers of the array are
synthesized using solid phase synthesis techniques on the surface of a substrate. A
critical feature of the invention is that one or more locations on the substrate surface
are spatially and temporally protected by a protective bubble during the synthesis
10 protocol, where the protective bubble may be produced using any convenient bubble
producing means. The bubble producing means may be a component of either a
substrate or a structure separate from the substrate. Also provided are the arrays
produced by the subject methods, kits for use in practicing the subject methods, and
methods of using the arrays in analyte detection assays, including hybridization
15 assays, such as gene discovery, differential gene expression and gene sequencing
assays.